



Appn. Number 10/733,519

(Long)

GAU 2834

Amnt. A contd.

Amendment to the Claims

Claims 1 – 20 (canceled)

Claim 21 (new): A brush-less dynamo-electric device comprising :

an ellipsoid or spherical, permanent magnet rotor having N and S pole faces of substantially uniform magnetic flux along the entire outer surface area of the shape and having a central plane of magnetic pole dissection parallel to the rotor axis;

a stator comprises a bobbin-type, core-less, hollow through construction including pivotal support means for the axially disposed spherical rotor and having an air gap dimension there between;

said stator bobbin further supports at least one continuous coil winding conductor having two ends for connection to a load or source of electrical current;

the bobbin and the at least one continuous coil winding surrounds the rotor outer circumference, the coil winding is axially centered such that said rotor axis is parallel with said coil winding; and

rotor means wherein said rotor is urged to rotate about said axis.

Claim 22 (new): The dynamo-electric device of claim 21, wherein said pivotal support means for axially disposed rotor includes spherical bearing means for rotation of rotor about said axis.

Claim 23 (new): The dynamo-electric device of claim 21, wherein a member is attached to the permanent magnet rotor and extends laterally through the hollow through and unobstructed side of stator bobbin.

Claim 24 (new): The dynamo-electric device of claim 21, wherein a member is attached to the permanent magnet rotor and extends laterally through the hollow through and unobstructed side of stator bobbin and wherein said member is constrained for limited travel by additional abutment members mounted to a base member.

Claim 25 (new): The dynamo-electric device of claim 23, wherein an additional and adjacently located magnet is pivotally mounted along an extended member to a yoke member, said adjacent magnet coupled magnetically with rotor for extended relative travel between the two extended members.

Claim 26 (new): A brush-less dynamo-electric device comprising :

an ellipsoid or spherical, permanent magnet rotor having N and S pole faces of substantially uniform magnetic flux along the entire outer surface area of the shape and having a central plane of magnetic pole dissection parallel to the rotor axis;

a stator comprises a bobbin-type, core-less, hollow through construction for the axially disposed spherical rotor having an air gap dimension there between, wherein said stator and rotor are provided with a fixed shaft and bearing arrangement for rotation;

said stator bobbin further supports at least one continuous coil winding conductor having two ends for connection to a load or source of electrical current;

the bobbin and the at least one continuous coil winding surrounds the rotor outer circumference, the coil winding is axially centered such that said rotor axis is parallel with said coil winding; and

rotor means wherein said rotor is urged to rotate about said axis.

Claim 27 (new): The dynamo-electric device of claim 26, wherein said rotor means includes an additional and externally provided, magnetically coupled, moving magnet wherein first said rotor is urged to rotate about said axis.

Claim 28 (new): The dynamo-electric device of claim 26, wherein said rotor means includes an additional and externally provided, magnetically coupled and axially rotatable magnet wherein first said rotor is urged to rotate about said axis.

Claim 29 (new): The dynamo-electric device of claim 26, wherein said rotor means includes an additional and externally provided electromagnet.

Claim 30 (new): The dynamo-electric device of claim 26, wherein said stator includes a ferrous or iron member positioned and attached proximal with said stator for causing a bias position of said rotor.

Claim 31 (new): The dynamo-electric device of claim 26, wherein said device is a first device mounted adjacently to a second device identical to said first device, and wherein first rotor and second rotor includes a connection means between said first device and said second device for mutual cooperation and rotation about respective axis.

Claim 32 (new): The dynamo-electric device of claim 31, wherein said connection means

includes magnetic coupling.

Claim 33 (new): The dynamo-electric device of claim 31, wherein said connection means includes a magnetically coupled additional and externally provided moving magnet wherein first rotor and second rotor are urged to rotate about respective axis.

Claim 34 (new): A brush-less dynamo-electric device comprising:

an ellipsoid or spherical, permanent magnet rotor having N and S pole faces of substantially uniform magnetic flux along the entire outer surface area of the shape and having a central plane of magnetic pole dissection parallel to the rotor axis;

a stator comprises a bobbin-type, core-less, hollow through construction and supports at least one continuous coil winding conductor having two ends for connection to a load or source of electrical current;

stator further includes pivotal support means for the axially disposed rotor having an air gap dimension there between, said pivotal support means comprises extended or molded spherical cavity sidewalls at bobbin sides for rotor containment wherein said air gap dimension is filled with a magnetic substance having fluidity that provides a hydrostatic pressure gradient along the entire spherical surface area and along the inside spherical surface areas of the cavity containment walls for suspension of the rotor having no shaft;

rotor alignment means wherein said rotor axis is aligned parallel with the at least one coil winding as axially centered; and

rotor means wherein said rotor is urged to rotate about said axis.

Claim 35 (new): The dynamo-electric device of claim 34, wherein said rotor alignment means includes an additional and external positioned magnet.

Claim 36 (new): The dynamo-electric device of claim 34, wherein said rotor alignment means includes an additional and external moving magnet.

Claim 37 (new): The dynamo-electric device of claim 34, wherein said rotor alignment means includes an additional and external rotatable magnet having an axis of rotation.

Claim 38 (new): The dynamo-electric device of claim 34, wherein said rotor alignment means includes an additional and external ferrous or iron member.

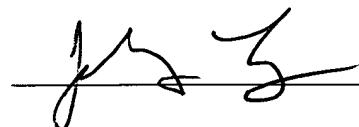
Claim 39 (new): The dynamo-electric device of claim 34, wherein said rotor means for urging rotation of said rotor includes magnetic coupling with additional and external rotatable magnet having an axis of rotation.

Claim 40 (new): The dynamo-electric device of claim 34, wherein said rotor means for urging rotation of said rotor includes magnetic coupling with the permanent magnet of an additional and proximally mounted dynamo-electric device.

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